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. APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/495,141	01/31/2000	Mark J. Hampden-Smith	SMP-023-2-1	4450
75	590 01/13/2005		EXAM	XAMINER
David F. Dockery MARSH FISCHMANN & BREYFOGLE LLP 3151 S. Vaughn Way, Suite 411 Aurora, CO 80014			TALBOT, BRIAN K	
			ART UNIT	PAPER NUMBER
			1762	

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

-		Application No.	Applicant(s)
Office Action Summary		09/495,141	HAMPDEN-SMITH ET AL.
		Examiner	Art Unit
		Brian K Talbot	1762
Period fo	The MAILING DATE of this communication app or Reply	oears on the cover sheet wi	h the correspondence address
THE I - Exter after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REPLING DATE OF THIS COMMUNICATION. Insigns of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. Period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing departed term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON , cause the application to become AB	eply be timely filed (30) days will be considered timely. HS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>26 C</u> This action is FINAL . 2b) This Since this application is in condition for allowal closed in accordance with the practice under E	action is non-final. nce except for formal matte	
Dispositi	on of Claims		
5)□ 6)⊠ 7)□ 8)□	Claim(s) 12-20 and 24-38 is/are pending in the 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 12-20 and 24-38 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.	
Applicati	on Papers		
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to be drawing(s) be held in abeyan ion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).
Priority u	nder 35 U.S.C. § 119		
a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority application from the International Bureau ee the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been u (PCT Rule 17.2(a)).	oplication No received in this National Stage
Attachment	(c)		1
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date	Paper No(s	ummary (PTO-413) /Mail Date ormal Patent Application (PTO-152) -

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1. The response filed 10/26/04 has been considered and entered. Claims 12-20 and 24-38 remain in the application.

2. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

3. Claims 12-15,17-20,25-29,37 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda et al. (5,644,193) in combination with Oshima et al. (5,932,139).

Matsuda et al. (5,644,193) teaches a phosphor coating for cathode ray tubes, fluorescent lamps and radiation screens. The phosphor coating suspension includes spherical particles having an average particle size of from 0.5-20 microns. The phosphor particles can be oxides or sulfide of phosphor. The coating can be applied by syringe injection.

Matsuda et al. (5,644,193) fails to teach that the coating can be applied by ink-jet in an x-y fashion.

Oshima et al. (5,932,139) teaches phosphor particles applied by ink-jet printing.

Therefore, it would have been within the skill of one practicing in the art to have modified Matsuda et al. (5,644,193) process by forming the phosphor coating with hollow particles and applying the coating by ink-jet as evidenced by Oshima et al. (5,932,139) because of the expectation of achieving similar results.

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While the Examiner acknowledges the fact that Matsuda et al. (5,644,193) in combination with Oshima et al. (5,932,139) fail to specifically teach the syringe or ink-jet coating being controllable in an x-y grid, it is the Examiner's position that this would have been an inherent function of ink-jet printing and an automated syringe. It is further noted that these are the same coating techniques claimed and hence the Examiner can draw no other conclusion as to this limitation. If Applicant disagrees, Applicant is invited to supply a showing or reasoning why the claimed ink-jet and syringe are x-y controllable and that the prior art's same devices are not.

Claims 16,24,30-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda et al. (5,644,193) in combination with Oshima et al. (5,932,139) further in view of Chadha (5,662,831).

Matsuda et al. (5,644,193) in combination with Oshima et al. (5,932,139) fail to teach coating being performed on a flat panel display.

Chadha (5,662,831) teaches luminescent phosphor coating on articles such as field emission displays and plasma displays and articles relating thereto (col. 1, lines 10-13 and col. 2, lines 40-42). Particles sizes of les than 3 microns and liquid medium including water, alcohols, etc. is taught.

Therefore, it would have been obvious at the time the invention was made for one skilled in the art to have had a reasonable expectation of achieving similar success for performing the phosphor coating process of Matsuda et al. (5,644,193) in combination with Oshima et al. (5,932,139) on a FED or PDP as evidenced by Chadha (5,662,831).

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Response to Amendment

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4. Applicant's arguments filed 10/26/04 have been fully considered but they are not persuasive.

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian K Talbot whose telephone number is (571) 272-1428. The examiner can normally be reached on Monday-Friday 6AM-3PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Shrive P Beck can be reached on (571) 272-1415. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Brian K Talbot Primary Examiner

R ferall 1/12/05

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BKT